

NRC FORM 374

U.S. NUCLEAR REGULATORY COMMISSION

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## MATERIALS LICENSE

Pursuant to the Atomic Energy Act of 1954, as amended, the Energy Reorganization Act of 1974 (Public Law 93-438), and Title 10, Code of Federal Regulations, Chapter I, Parts 30, 31, 32, 33, 34, 35, 36, 39, 40, and 70, and in reliance on statements and representations heretofore made by the licensee, a license is hereby issued authorizing the licensee to receive, acquire, possess, and transfer byproduct, source, and special nuclear material designated below; to use such material for the purpose(s) and at the place(s) designated below; to deliver or transfer such material to persons authorized to receive it in accordance with the regulations of the applicable Part(s). This license shall be deemed to contain the conditions specified in Section 183 of the Atomic Energy Act of 1954, as amended, and is subject to all applicable rules, regulations, and orders of the Nuclear Regulatory Commission now or hereafter in effect and to any conditions specified below.

|   |   |  |
|---|---|--|
| Licensee  |   |  |
| 1. Department of the Army   |   | 3. License number 12-00722-15  |
| 2. 1 Rock Island Arsenal<br>SOSRI-CO<br>Building 210, Rodman Avenue<br>Rock Island, IL 61299-5000 |   | 4. Expiration date August 31, 2012   |
|   |   | 5. Docket No. 030-36094  |
|   |   | Reference No.  |
| 6. Byproduct, source, and/or special nuclear material   | 7. Chemical and/or physical form  | 8. Maximum amount that licensee may possess at any one time under this license |
| A. Hydrogen-3   | A. As described in Item 5. of license application dated April 10, 2002. | A. 5,200 curies, additionally see License Conditions 13 and 14.                |
| B. Americium-241  | B. As described in Item 5. of license application dated April 10, 2002. | B. 0.5 curies, additionally see License Conditions 13 and 14.                  |
| C. Promethium-147   | C. As described in Item 5. of license application dated April 10, 2002. | C. 50 curies, additionally see License Conditions 13 and 14.                   |
| D. Cesium-137   | D. As described in Item 5. of license application dated April 10, 2002. | D. 250 curies, additionally see License Conditions 13 and 14.                  |
| E. Nickel-63  | E. As described in Item 5. of license application dated April 10, 2002. | E. 500 curies, additionally see License Conditions 13 and 14.                  |
| F. Krypton-85   | F. As described in Item 5. of license application dated April 10, 2002. | F. 50 curies, additionally see License Conditions 13 and 14.                   |
| G. Cobalt-60  | G. As described in Item 5. of license application dated April 10, 2002. | G. 100 curies, additionally see License Conditions 13 and 14.                  |
| H. Thorium-232/230  | H. As described in Item 5. of license application dated April 10, 2002. | H. 100 curies, additionally see License Conditions 13 and 14.                  |

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- |   |   |  |
|---|---|--|
| 6. Byproduct, source, and/or special nuclear material                       | 7. Chemical and/or physical form  | 8. Maximum amount that licensee may possess at any one time under this license                                   |
| I. Lead-210   | I. As described in Item 5. of license application dated April 10, 2002. | I. 1 curie, additionally see License Conditions 13 and 14.   |
| J. Strontium-90   | J. As described in Item 5. of license application dated April 10, 2002. | J. 20 curies, additionally see License Conditions 13 and 14.   |
| K. Carbon-14  | K. As described in Item 5. of license application dated April 10, 2002. | K. 50 curies, additionally see License Conditions 13 and 14.   |
| L. Source material:<br>a. Uranium depleted in Uranium-235<br>b. Thorium-232 | L. As described in Item 5. of license application dated April 10, 2002. | L. 10,000 kilograms, additionally see License Conditions 13 and 14.  |
| M. Special Nuclear Material   | M. Plated calibration check sources.                                    | M. no single source to exceed 10 microcuries and 200 grams total, additionally see License Conditions 13 and 14. |

## 9. Authorized use:

- A. through M. Possession incident to recycle, volume reduction, and storage pending disposal, as described in Application dated April 10, 2002.

CONDITIONS

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10. Licensed material shall be possessed, processed and stored at the licensee's facilities located at the U.S. Army Contaminated Equipment Retrograde Field Service Facility, Rock Island Arsenal, Beck Lane, Building 170, Rock Island, Illinois.
11. Licensed material shall be used by or under the supervision of Thomas G. Gizicki, Ronald J. Lund, David R. Horton or Derek O. Cornette.
12. A. The Radiation Safety Officer (RSO) for this license is Thomas G. Gizicki.  
B. The Alternate Radiation Safety Officer (ARSO) for this license is Ronald J. Lund.
13. In addition to the possession limits in Item 8, the licensee shall further restrict the possession of licensed material to quantities below the limits specified in 10 CFR 30.72 which require consideration of the need for an emergency plan for responding to a release of licensed material.
14. In addition to the possession limits in Item 8, the licensee shall further restrict the possession of licensed material in unsealed sources, to quantities equal to or less than  $1 \times 10^4$  times the applicable limits in Appendix B, 10 CFR Part 30 as specified in 10 CFR 30.35(d).
15. The licensee shall maintain an inventory record system, for all radioactive material possessed at the facility, as described in Section 11, Appendix E, of License Application dated April 10, 2002.
16. Sealed sources containing licensed material shall not be opened by the licensee.
17. The licensee is authorized to transport licensed material only in accordance with the provisions of 10 CFR Part 71, "Packaging and Transportation of Radioactive Material."
18. The licensee shall maintain records of information related to decommissioning as specified in 10 CFR 30.35(g), 40.36(f) or 70.25(g) until this license is terminated by the Commission.
19. Except as specifically provided otherwise in this license, the licensee shall conduct its program in accordance with the statements, representations, and procedures contained in the documents, including

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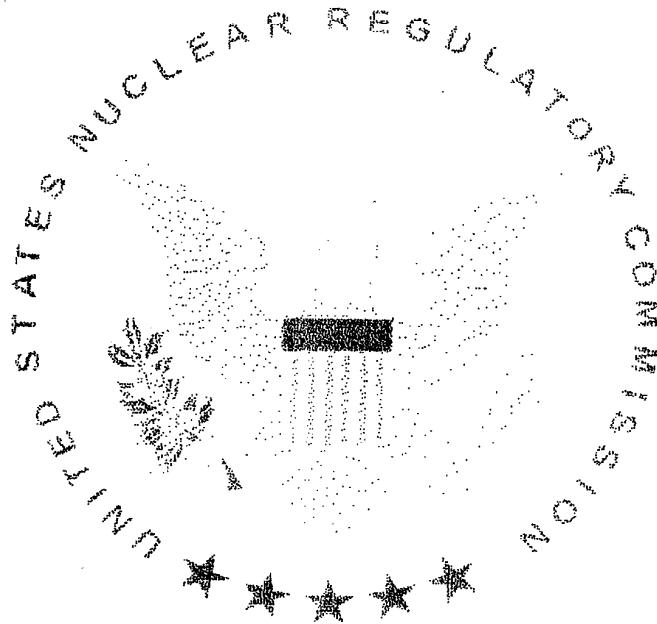
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any enclosures, listed below. The U.S. Nuclear Regulatory Commission's regulations shall govern unless the statements, representations, and procedures in the licensee's application and correspondence are more restrictive than the regulations.

- A. Application dated April 10, 2002;
- B. Letters dated April 10, 2002 and August 8, 2002.



FOR THE U.S. NUCLEAR REGULATORY COMMISSION

Date AUG 09 2002

By

Loren J. Hueter  
Materials Licensing Branch  
Region III